CLAIMS

What is claimed is:

1	1.	A method of collecting network management information from a plurality of network
2		devices in a network management system, the method comprising the computer-
3		implemented steps of:
4		configuring said network management system to acquire data from said
5		network devices based on a user-definable operational specification;
6		querying said network devices for data to form a set of acquired data in
7		accordance with said operational specification;
8		transforming said acquired data to form a set of transformed data in
9		accordance with said operational specification; and
10		storing said transformed data to an information base to form a set of stored
11		data in accordance with said operational specification.
1	2.	A method as recited in Claim 1, wherein said operational specification is defined in ar
2		Extensible Markup Language file.
1	3.	A method as recited in Claim 1, wherein said operational specification includes a
2		scheduling block to direct said network management system to operate at a preset
3		point in time.

- 4. A method as recited in Claim 1, wherein the step of querying said network devices includes using a network communication protocol that is defined in said operational specification for each of said network devices.
- A method as recited in Claim 1, wherein the step of transforming said acquired data includes performing at least one arithmetic transformation on said acquired data, wherein said arithmetic transformation is specified by said operational specification.
- A method as recited in Claim 1, further comprising the step of monitoring said

 acquired data, said transformed data and said stored data for compliance with at least

 one threshold criterion specified by said operational specification.
- A method as recited in Claim 6, further comprising the step of generating a
 notification when any of said acquired data, said transformed data and said stored data
 complies with said threshold criterion.
- A method as recited in Claim 1, further comprising the step of aggregating said stored data to form a set of trending data by performing at least one arithmetic aggregation on said stored data, wherein said arithmetic aggregation is specified by said operational specification.

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1	9.	A method as recited in Claim 1, further comprising the step of removing a quantity of
2		said stored data from said information base in accordance with information in said
3		operational specification.
1	10.	A method of collecting and aggregating network management information from a
2		plurality of network devices in a network management system, the method comprising
3		the computer-implemented steps of:
4		configuring said network management system to acquire data from said
5		network devices based on a user-definable operational specification;
6		querying said network devices for data to form a set of acquired data in
7		accordance with said operational specification;
8		transforming said acquired data to form a set of transformed data in
9		accordance with said operational specification;
10		storing said transformed data to an information base to form a set of stored
11		data in accordance with said operational specification; and
12		aggregating said stored data to form a set of trending data by performing at
13		least one arithmetic aggregation on said stored data, wherein said
14		arithmetic aggregation is specified by said operational specification.
1	11.	A method as recited in Claim 10, wherein said operational specification is defined in
2		an Extensible Markup Language file.

- 1 12. A method as recited in Claim 10, wherein said operational specification includes a scheduling block to direct said network management system to operate at a preset point in time.
- 1 13. A method as recited in Claim 10, wherein the step of querying said network devices
 2 includes using a network communication protocol that is defined in said operational
 3 specification for each of said network devices.
- 1 14. A method as recited in Claim 10, wherein the step of transforming said acquired data 2 includes performing at least one arithmetic transformation on said acquired data, 3 wherein said arithmetic transformation is specified by said operational specification.
- 1 15. A method as recited in Claim 10, further comprising the step of monitoring said
 2 acquired data, said transformed data and said stored data for compliance with at least
 3 one threshold criterion specified by said operational specification.
- 1 16. A method as recited in Claim 15, further comprising the step of generating a
 2 notification when any of said acquired data, said transformed data and said stored data
 3 complies with said threshold criterion.
- 1 17. A method as recited in Claim 10, further comprising the step of removing a quantity
 2 of said stored data from said information base in accordance with information in said
 3 operational specification.

1	18.	A method of collecting, aggregating and monitoring network management
2		information from a plurality of network devices in a network management system, the
3		method comprising the computer-implemented steps of:
4		configuring said network management system to acquire data from said
5		network devices based on a user-definable operational specification,
6		wherein said operational specification is an Extensible Markup
7		Language file and includes a scheduling block to direct said network
8		management system to operate at a preset point in time;
9		querying said network devices for data to form a set of acquired data in
10		accordance with said operational specification using a network
11		communication protocol that is defined in said operational
12		specification for each of said network devices;
13		transforming said acquired data to form a set of transformed data, including
14		performing at least one arithmetic transformation on said acquired
15		data, wherein said arithmetic transformation is specified by said
16		operational specification;
17		storing said transformed data to an information base to form a set of stored
18		data in accordance with said operational specification;
19		monitoring said acquired data, said transformed data and said stored data for
20		compliance with at least one threshold criterion specified by said
21		operational specification;
22		generating a notification when any of said acquired data, said transformed data
23		and said stored data complies with said threshold criterion;

24		aggregating said stored data to form a set of trending data by performing at
25		least one arithmetic aggregation on said stored data, wherein said
26		arithmetic aggregation is specified by said operational specification;
27		and
28		removing a quantity of said stored data from said information base in
29		accordance with information in said operational specification.
1	19.	A computer-readable medium carrying one or more sequences of instructions for
2		collecting network management information from a plurality of network devices in a
3		network management system, which instructions, when executed by one or more
4		processors, cause the one or more processors to carry out the steps of:
5		configuring said network management system to acquire data from a plurality
6		of network devices on a network based on a user-definable operational
. 7		specification;
8		querying said network devices for data to form a set of acquired data in
9		accordance with said operational specification;
10		transforming said acquired data to form a set of transformed data in
11		accordance with said operational specification; and
12		storing said transformed data to an information base to form a set of stored
13		data in accordance with said operational specification.

1	20.	An apparatus for collecting network management information from a plurality of
2		network devices in a network management system, comprising:
3		means for configuring said network management system to acquire data from
4		said network devices based on a user-definable operational
5		specification;
6		means for querying said network devices for data to form a set of acquired
7		data in accordance with said operational specification;
8		means for transforming said acquired data to form a set of transformed data in
9		accordance with said operational specification; and
0		means for storing said transformed data to an information base to form a set of
1		stored data in accordance with said operational specification.

1	21.	An apparatus for collecting and aggregating network management information in a
2		network management system, comprising:
3		one or more configuration files for configuring said network management
4		system to acquire data from a plurality of network devices on a
5		network based on a user-definable operational specification;
6		one or more query modules for querying said network devices for data to form
7		a set of acquired data in accordance with said operational specification;
8		one or more transformation modules for transforming said acquired data to
9		form a set of transformed data in accordance with said operational
10		specification;
11		one or more storage modules for storing said transformed data to an
12		information base to form a set of stored data in accordance with said
13		operational specification; and
14		one or more aggregation modules for aggregating said stored data to form a set
15		of trending data by performing at least one arithmetic operation on said
16		stored data, said arithmetic operation specified by said operational
17		specification.